

Recombinant Human GDNFR-alpha-1/GFRA1 Protein

Catalog No.: RP00102 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2674	P56159

Tags

C-hFc&His

Synonyms

GFRA1;GDNFR;GDNFRA;GFR-ALPHA-1;RET1L;RETL1;TRNR1

Product Information

Source	Purification
HEK293 cells	> 80% by SDS-PAGE.

Calculated MW	Observed MW
72.54 kDa	100 kDa

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a member of the glial cell line-derived neurotrophic factor receptor (GDNFR) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature receptor. Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. This receptor is a glycosylphosphatidylinositol (GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This gene is a candidate gene for Hirschsprung disease. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.

Basic Information

Description

Recombinant Human GDNFR-alpha-1/GFRA1 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala19-Lys429) of human GFRA1/GFRα1/GDNFRA (Accession #NP_665736) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human GDNF at 1 μg/mL (100 μL/well) can bind Human GFRA1 with a linear range of 2-332 ng/mL.

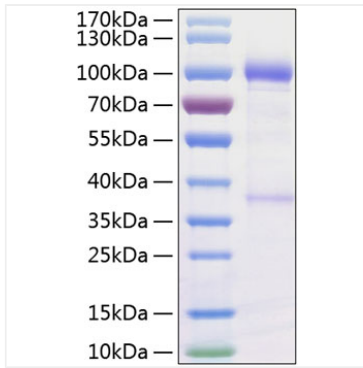
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

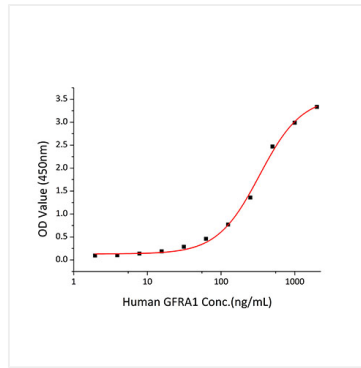
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human GDNFR-alpha-1/GFRA1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100 kDa.



Immobilized recombinant Human GDNF at 1 $\mu\text{g/mL}$ (100 μL /well) can bind Human GFRA1 with a linear range of 2-332ng/mL.